

# New York State Department of Transportation

## Yellow Flag NB2258W003

By: Alex Abreu

Flag Date: June 21, 2022

Superseding Information:

No Flags Superseded

### Structure Information

**BIN: 1065318**

**Feature Carried: 278I278IX2M23027**

**Feature Crossed: 6TH AVENUE**

**Orientation: 8 - NORTHWEST**

**Region: 11 - NEW YORK CITY**

**County: KINGS**

**Political Unit: City of NEW YORK**

**Approximate Year Built: 1962**

**Posted Load Matches Inventory : Yes**

**Bridge Load Posting (Tons) : Not Posted for Load**

**Primary Owner: New York State Department of Transportation**

**Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party**

**Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder**

**This Bridge is not a Ramp**

**Number of Spans: 322**

### Verbal Notification Information

**Person Notified: Heinz Joachim, P.E.**

**Date: June 21, 2022 2:00:00 PM**

**Of: NYSDOT Region 11**

### Signature Information

**Signature: Alex Abreu, P.E. 099761-1**

**Date: July 19, 2022**

**Reviewed By: Robert Kemp**

**Date: July 20, 2022**

**Attachments: 9**

### Flagged Elements

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 67</b>			
	107 - Steel Open Girder/Beam	781	ft
	PR831 - Steel Beam End	32	each

### Flagged Condition Description

This Yellow Flag No. NB2258W003 is NEW.

Location: Span 67, Girder G12 at Pier 66 over 3rd Avenue Eastbound.

Description: The end of Girder G12 on Span 67 side of Pier 66 exhibits section loss for 6" H x 6" W area in the girder web directly above the bearing with average 0.32" remaining thickness measured (RTM) within area resulting in approximately 49% localized section loss (Photos 4 and 7).

The end of the girder web, approximately 5" high from the bottom flange above the bearing exhibits 3" H x 1-1/2" W corrosion hole in the web (Photo 5). The lower web of the girder on the end side of the bearing exhibits section loss above the bottom flange for 1/16" deep for 12" L x 3"-5" H followed by 1/8" deep for 12" L x 2" H at the left face and 1/16" deep for 12" L x up to 5" H at the right face (Photo 8). The remaining web height along the guide angles (approximately 16" H area) exhibits 1/16" deep section loss for 3" wide at the left face and 2" wide at the right face (Photos 6 and 9).

The right-side bottom flange exhibits 1/16" deep section loss at the bottom of the flange on the end side of the bearing for 12" L x 5" W. The web stiffener below the end diaphragm connection at the right face exhibits up to 20% section loss for the full height of the stiffener.

The overall section loss for the web bearing area is approximately 35% and shear web area is approximately 37%. Refer to Yellow Flag Condition Sketch (Photo 2) for more details.

This is a new flag.

**Notes:**

1. The girder web behind the guide angles could not be inspected since the guide angles cover these areas.
2. The bearing and pedestal below the girder exhibit no significant defects.
3. Adjacent Girders G11 and G13 both have previous web repairs and are in good condition.
4. The girder on the Span 66 side of the pier at this location (identified as Girder G9 in the framing plan), is framed into the pier-cap with no significant defects at the girder and connection angles.
5. A double left lane closure at 3rd Avenue In-Bound (Hugh Carey Tunnel) between 58th and 59th Streets, and a 35' bucket truck are required to access this location.

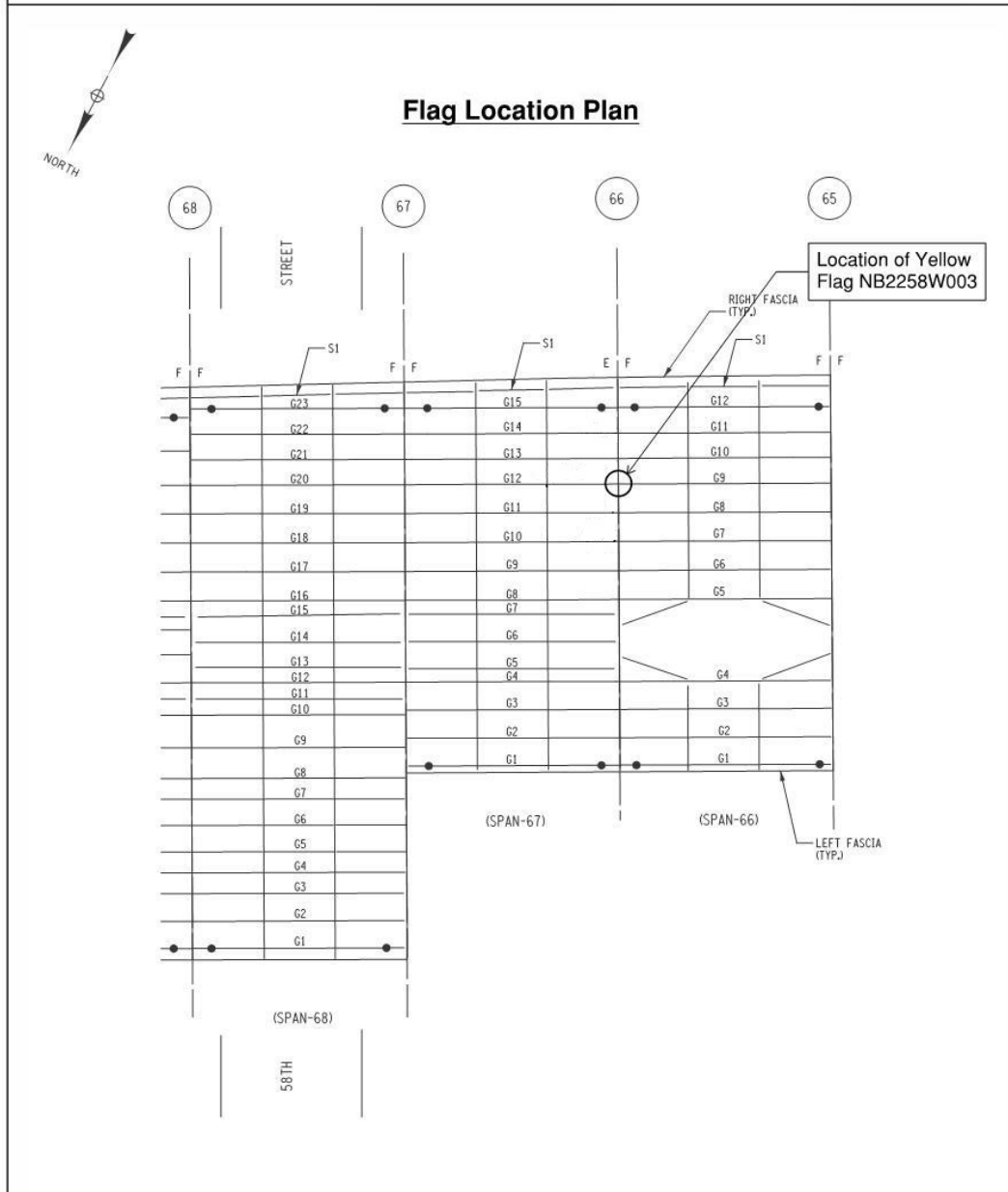
**Flag Photographs**Photo Number: **1**Photo Filename: **22\_Flag Location Plan.jpg**Gowanus Expressway  
2022 Biennial Inspection - Field SketchBIN: 1065318Team: AA/TSDate: 06/21/2022Span: 67Location: Girder G12 at Pier 66**Attachment Description: Flag Location Plan**

Photo Number: 2

Photo Filename: 22\_Span 67\_Girder G12\_Connection Detail.jpg

Gowanus Expressway  
2022 Biennial Inspection - Field Sketch

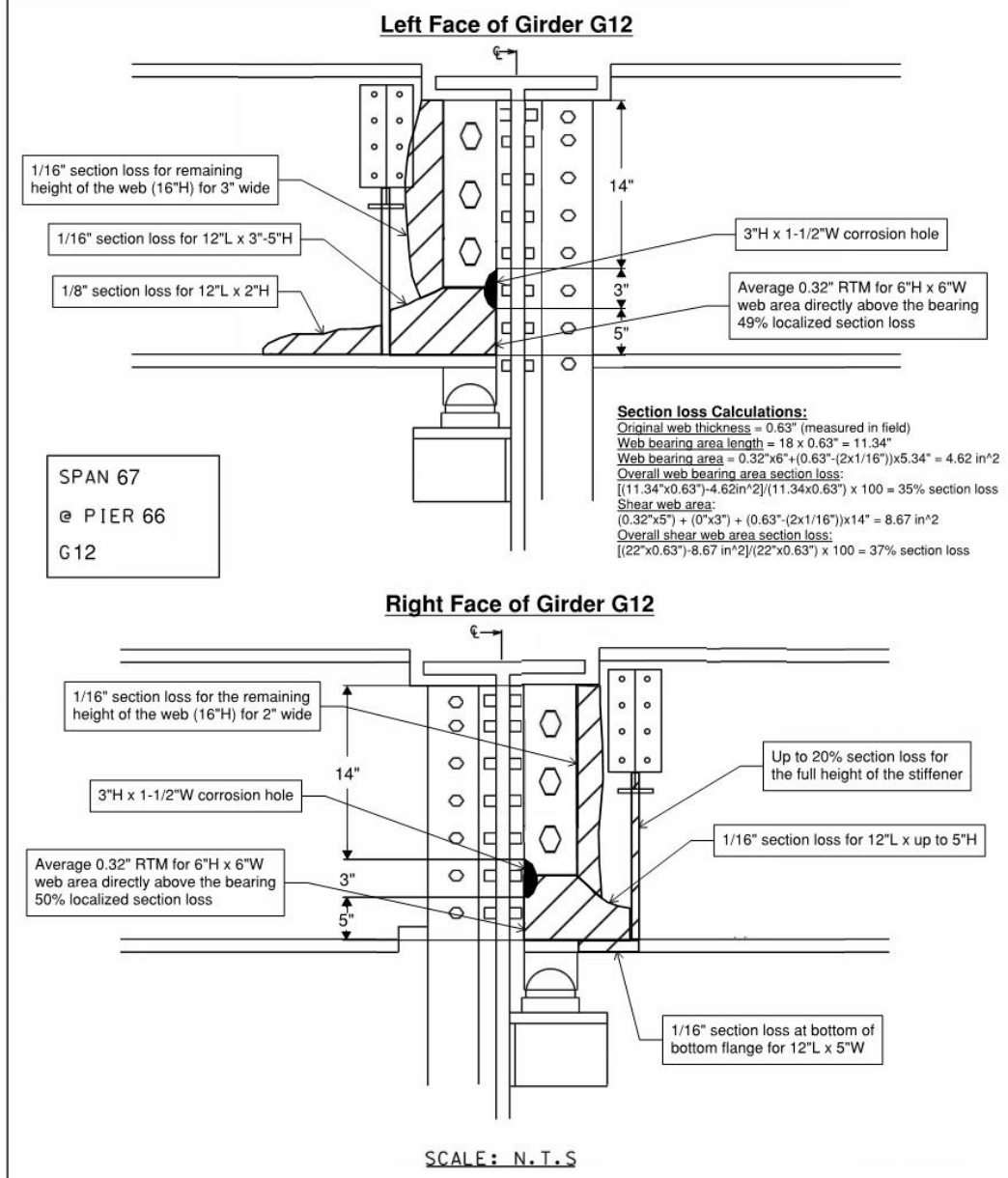
BIN: 1065318

Team: AA/TS

Date: 6/21/2022

Span: 67

Location: Girder G12 at Pier 66

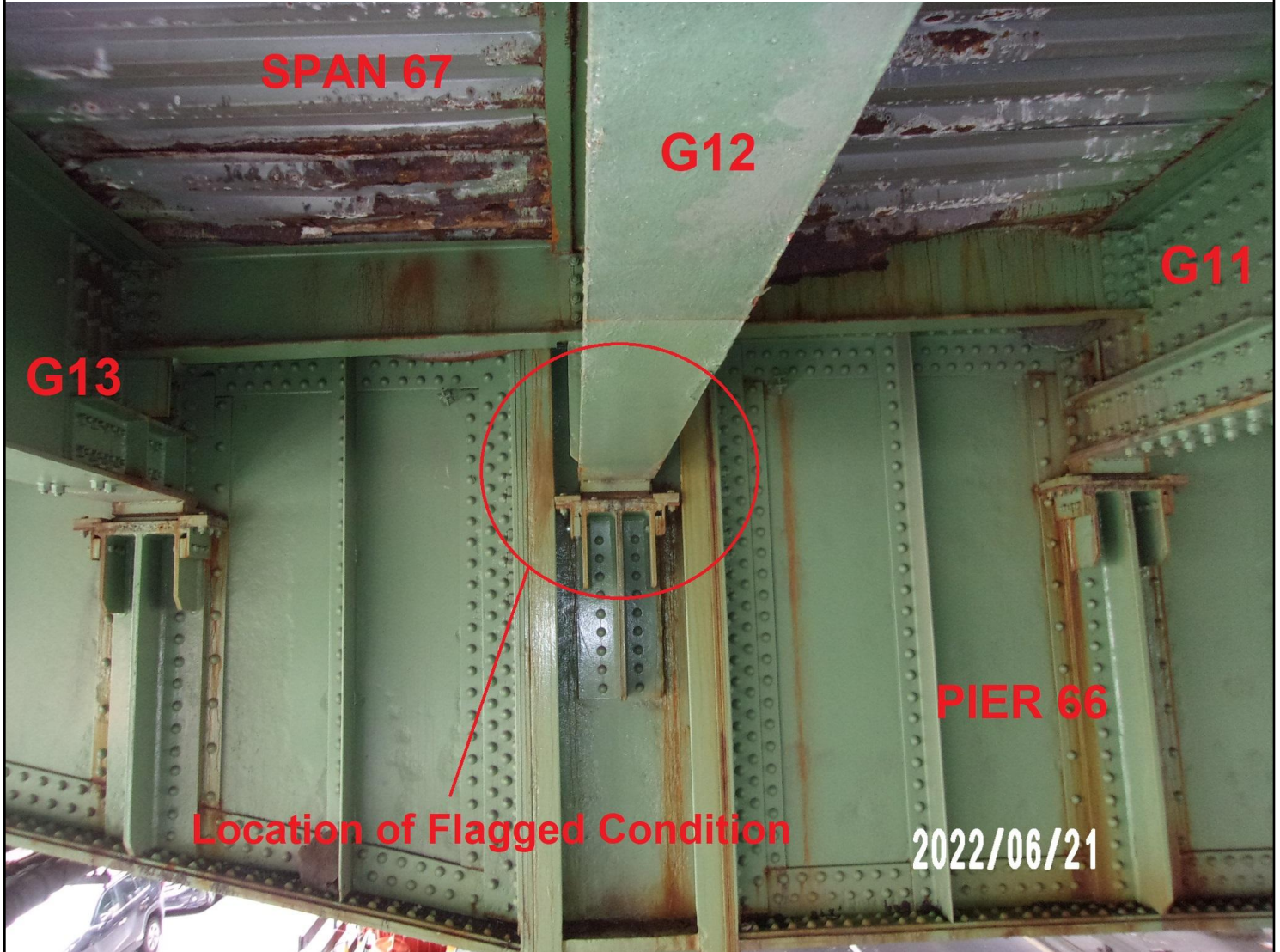


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Attachment Description: Yellow Flag Condition Sketch

Photo Number: 3

Photo Filename: 22\_113\_0804.JPG



**Attachment Description:** General view of the flagged location at Girder G12 in Span 67 at Pier 66. Looking Begin.



Photo Number: 4

Photo Filename: 22\_113\_0807.JPG



**Attachment Description:** The right face of Girder G12 in Span 67 at Pier 66. The lower web of the girder exhibits approximately 49% section loss for 6" H x 6" W area in the girder web directly above the bearing. Looking Left.

Photo Number: 5

Photo Filename: 22\_113\_0808.JPG



**Attachment Description:** The right face of Girder G12 in Span 67 at Pier 66. The end of the girder web approximately 5" high from the bottom flange above the bearing exhibits 3" H x 1-1/2" W corrosion hole in the web. Looking Left.



Photo Number: 6

Photo Filename: 22\_113\_0813.JPG



**Attachment Description:** The right face of Girder G12 in Span 67 at Pier 66. The girder web exhibits 1/16" section loss for the remaining web height along the guide angle and in the lower web above the bottom flange in front of the bearing. Looking Left.



Photo Number: 7

Photo Filename: 22\_113\_0816.JPG



**Attachment Description:** The left face of Girder G12 in Span 67 at Pier 66. The lower web of the girder exhibits approximately 49% section loss for 6" H x 6" W area in the girder web directly above the bearing. Looking Right.

Photo Number: 8

Photo Filename: 22\_113\_0820.JPG



**Attachment Description:** The left face of Girder G12 in Span 67 at Pier 66. The lower web of the girder in front of the bearing exhibits section loss above the bottom flange for 1/16" deep for 12" L x 3"-5" H followed by 1/8" deep section loss for 12"L x 2"H. Looking Right.



Photo Number: 9

Photo Filename: 22\_113\_0821.JPG



**Attachment Description:** The left face of Girder G12 in Span 67 at Pier 66. The girder web exhibits 1/16" section loss for the remaining web height along the guide angle and in the lower web above the bottom flange in front of the bearing. Looking Right.